



### DEAD LOAD DEFLECTION DIAGRAM

- NOTES:  
 1. ENCIRCLED NUMBERS INDICATE ANTICIPATED DEFLECTION DUE TO CONCRETE ONLY.  
 2. DEFLECTIONS ARE IN INCHES.

		MOMENT AND REACTION TABLE											
		MOMENT - foot-kips								REACTION - kips			
LOAD NAME	LOAD - k/ft	POSITIVE MOMENT				NEGATIVE MOMENT		REACTION					
		0.4 PT. END SPAN		0.5 PT. CENTER SPAN		PIER	PIER	ABUTMENT		PIER			
		INTERIOR	EXTERIOR	INTERIOR	EXTERIOR	INTERIOR	EXTERIOR	INTERIOR	EXTERIOR	INTERIOR	EXTERIOR		
DC1	0.74*	0.72*	565	531	680	639	1406	1321	35	33	132	124	
DC2	0.14	0.14	87	86	115	114	175	176	5	5	18	18	
DW	0.15	0.15	91	90	120	119	183	184	5	5	18	18	
LIVE LOAD + IMPACT HL-93	DISTRIBUTION FACTOR	MOMENT	MOMENT										
		0.591	0.681	1302	1500	1511	1869	1260	1488	-	-	-	-
		REACTION	REACTION										
		0.772	0.681	-	-	-	-	-	-	87	77	163	143
TOTAL				-	-	-	-	3024	3169	132	120	331	303

\* LOAD VALUES DO NOT INCLUDE GIRDER WEIGHT.  
 MOMENT AND REACTION VALUES DO INCLUDE GIRDER WEIGHT.  
 MOMENTS AND REACTIONS SHOWN ARE UNFACTORED.

LATEST REVISION DATE	<i>Norman E. Mc Donnell</i> APPROVED BY BRIDGE ENGINEER		
		STANDARD DESIGN - 40' ROADWAY, 3 SPAN BRIDGES <b>ROLLED STEEL BEAM BRIDGES</b> OCTOBER, 2014	
		<b>BEAM DEFLECTIONS</b> <b>320'-0 BRIDGE</b>	<b>RS40-069-14</b>